

CLAIMS

WE CLAIM:

1. An electrical cable comprising:
a series of mutually insulated and parallel electrical conductors joined
edgewise to form a flexible ribbon;
a first conforming flexible electrical shield covering the ribbon;
5 a flexible insulating layer covering the first conforming flexible electrical
shield; and
a second conforming flexible electrical shield covering the insulating layer.
2. The electrical cable of claim 1 including further an outer insulating jacket
covering the second conforming electrical shield.
3. The electrical cable of claim 1 wherein the first and second conforming
flexible electrical shields are metal foil.
4. The electrical cable of claim 3 wherein the first and second conforming
flexible electrical shields are pleated.
5. The electrical cable of claim 1 further including at least one connector
providing, within a connector shell, a plurality of releasable connector elements for
electrically and mechanically engaging with corresponding elements in a second
connector, the connector elements connected to the electrical conductors of the
5 cable.
6. The electrical cable of claim 5 wherein the connector shell is electrically
connected to the second conforming flexible electrical shield and the first
conforming conductive electrical shield is connected to one of the connector
elements.

7. A cable assembly providing electrical communication of a series of signals from a first electrical device to a second electrical device comprising:

a series of first terminals associated with the first electrical device including multiple signal terminals and at least one signal return terminal and at least one earth
5 ground separate from the signal return terminal;

a series of second terminals associated with the second electrical device including multiple signal terminals and at least one signal return terminal;

a series of mutually insulated and parallel electrical conductors joined edgewise to form a flexible ribbon, wherein the conductors are attached to the
10 terminals so that electrical conductors carrying signal returns alternate with conductors carrying signals;

a first conforming flexible electrical shield covering the ribbon and attached to a signal return terminal;

an insulating layer covering the outside of the first conforming flexible
15 electrical shield; and

a second conforming flexible electrical shield covering the insulating layer and attached to the earth ground.

8. The cable assembly of claim 7 wherein the cable further includes an outer insulating jacket covering the second conforming electrical shield.

9. The cable assembly of claim 7 wherein the first and second conforming flexible electrical shields are metal foil.

10. The cable assembly of claim 9 wherein the first and second conforming flexible electrical shields are pleated.

11. The cable assembly of claim 7 wherein the terminals are a plurality of releasable connector elements within a connector shell for electrically and mechanically engaging with corresponding elements in a second connector, the connector elements connected to ones of the electrical conductors of the cable and
5 the connector shell electrically connected to the second conforming flexible

electrical shield and the first conforming conductive electrical shield connected to one of the connector elements.